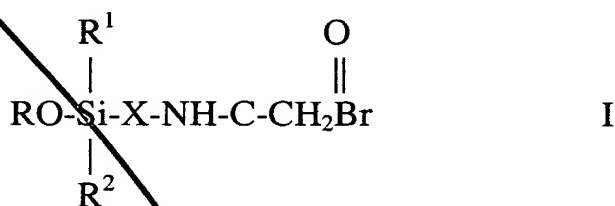


WHAT IS CLAIMED IS:

1. A method of functionalizing a solid support comprising contacting said support with a bromoacetamidossilane of Formula I



wherein:

R is an aryl or linear or branched alkyl,

R¹ and R² are, independently, a linear or branched alkyl, linear or branched alkoxy, aryl or phenoxy, and

X is a linker group,

under conditions such that said bromoacetamidossilane reacts with groups present on said support.

2. The method according to ~~claim 1~~ wherein

R is a linear or branched C₁-C₁₀ alkyl,

R¹ is a C₁-C₁₀ linear or branched alkyl and R² is a C₁-C₁₀ linear or branched alkyl, a C₁-C₁₀ linear or branched alkoxy or phenoxy, and

X is (CH₂)_n wherein n is 0 to 25.

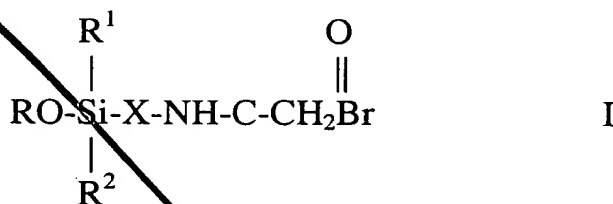
3. The method according to claim 1 wherein said bromoacetamidossilane is *N*-(3-dimethylethoxysilylpropyl) bromoacetamide.

4. The method according to claim 1 wherein said solid support is a glass support.

5. A functionalized solid support produced according to the method of claim 1.

6. The functionalized support according to claim 5 wherein said functionalized support is a functionalized glass support.

7. A compound of the Formula I



wherein:

R is an aryl or linear or branched alkyl,

R¹ and R² are, independently, a linear or branched alkyl, linear or branched alkoxy, aryl or phenoxy, and

X is a linker group.

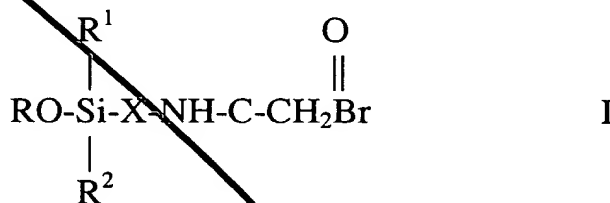
8. The compound of claim 7 wherein

R is a linear or branched C₁-C₁₀ alkyl,

R¹ is a C₁-C₁₀ linear or branched alkyl and R² is a C₁-C₁₀ linear or branched alkyl, a C₁-C₁₀ linear or branched alkoxy or phenoxy, and

X is (CH₂)_n wherein n is 0 to 25.

9. A solid support silanized with a bromoacetamidodisilane of
Formula I:



wherein:

R is an aryl or linear or branched alkyl,

R¹ and R² are, independently, a linear or branched alkyl, linear or branched alkoxy, aryl or phenoxy, and

X is a linker group.

10. The support according to claim 9 wherein said support is a glass support.

11. A method of immobilizing a phosphorothioate-terminated biopolymer on the support according to claim 9 comprising contacting said biopolymer with said support under conditions such

that a bromoacetamide group present on said support reacts with said phosphorothioate.

12. The method according to claim 11 wherein said support is a glass support.

13. The method according to claim 11 wherein said biopolymer is a 5' phosphorothioate oligonucleotide.

14. A composition comprising a phosphorothioate-terminated biopolymer and a bromoacetamidossilylated solid support wherein said phosphorothioate-terminated biopolymer is bound to said support via a bromoacetamide group.

15. The composition according to claim 14 wherein said biopolymer is a 5' phosphorothioate oligonucleotide.

16. The composition according to claim 14 wherein said support is glass.

17. The composition according to claim 14 wherein said biopolymer bears a detectable label.

18. The composition according to claim 17 wherein said biopolymer is fluoresceinated.

19. A kit comprising the support according to claim 9 disposed within a container means.

20. A kit comprising the composition according to claim 14 disposed within a container means.

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